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Consultants and Engineers
(Building, Geo-Tech & Road Materials Testing Laboratory)

#B9-003, GANGA, Jnanabharathi Enclave,
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Email: sapiencebangalore@gmail.com

Job No.: SCE/BBMP/LR/17/2022-2023

Date:25.05.2022

TEST REPORT ON CEMENT

Client : **Assistant Executive Engineer,** Yeshwanthpura Sub Division, BBMP, Bangalore.

Agency : **Sri. Lokesh R,** Contractor, Bangalore.

Name of Work : Compreshensive development of roads and drains in Muthyalanagara, LC-4A, Mohankumar nagara, Sundar nagara and surrounding areas in ward no-17 under PACKAGE-2019-20 RRN-DIV-(09), BBMP, Bangalore

Sample : : Cement (Ultratech 53 grade OPC)

Sample Supplied by: : AGENCY

Date of Manufacture: : April - 2022

Date of Testing : 23.05.2022 to 25.05.2022

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269:2015
1	a) Initial Setting Time	IS-4031 (Part - 5):1988(RA 2014)	135 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part - 5):1988(RA 2014)	360 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) :1988 (RA 2014) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	29.50%	

Note:

1. The Material is satisfied as per the requirement.

For SAPIENCE CONSULTANTS

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Job No.: SCE/BBMP/LR/17/2022-2023

Date : 25.05.2022

TEST REPORT ON FINE AGGREGATES (SAND)

Client : **Assistant Executive Engineer,** Yeshwanthpura Sub Division,BBMP, Bangalore.
Agency : **Sri. Lokesh R,** Contractor, Bangalore.
Name of Work : Compreshensive development of roads and drains in Muthyalanagara, LC-4A, Mohankumar nagara, Sundar nagara and surrounding areas in ward no-17 under PACKAGE-2019-20 RRN-DIV-(09), BBMP, Bangalore

Date of Testing : 25.05.2022
IS Code :IS 383:2016
:IS 2386 (Part 1):1963(RA 2011)
Material : Sand

Total Wt. of Aggregates in gms 1000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016 Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	79	7.90	7.90	92.1	90-100
2.36	115	11.50	19.40	80.6	75-100
1.18	123	12.30	31.70	68.3	55-90
600 Micron	264	26.40	58.10	41.9	35-59
300 Micron	187	18.70	76.80	23.2	8-30
150 Micron	153	15.30	92.10	7.9	0-10

Note:

1. The Material is satisfied as per the requirement.

For SAPIENCE CONSULTANTS

Authorised Signatory

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ಯಶವಂತಪುರ ಉಪ ವಿಭಾಗ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

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Job No.: SCE/BBMP/LR/17/2022-2023

Date : 25.05.2022

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer,** Yeshwanthpura Sub Division,BBMP, Bangalore.

Agency : **Sri. Lokesh R,** Contractor, Bangalore.

Name of Work : Compreshensive development of roads and drains in Muthyalanagara, LC-4A, Mohankumar nagara, Sundar nagara and surrounding areas in ward no-17 under PACKAGE-2019-20 RRN-DIV-(09), BBMP, Bangalore

Date of Testing : 25.05.2022

IS Code :IS 383:2016

:IS 2386 (Part 1):1963(RA 2011)

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
80	0	0	0	100	100
40	202	1.35	1.35	98.65	95-100
20	8351	55.67	57.02	42.98	30-70
10	3296	21.97	78.99	21.01	10-35
4.75	2674	17.83	96.82	3.18	0-5

Note:

1. The Material is satisfied as per the requirement.

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Job No.: SCE/BBMP/LR/17/2022-2023

Date : 25.05.2022

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer,** Yeshwanthpura Sub Division,BBMP, Bangalore.

Agency : **Sri. Lokesh R,** Contractor, Bangalore.

Name of Work : Compreshensive development of roads and drains in Muthyalanagara, LC-4A, Mohankumar nagara, Sundar nagara and surrounding areas in ward no-17 under PACKAGE-2019-20 RRN-DIV-(09), BBMP, Bangalore

Date of Testing : 25.05.2022

IS Code :IS 383:2016

:IS 2386 (Part 1):1963(RA 2011)

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
40	0	0	0	100	100
20	217	4.3	4.3	95.7	95-100
10	2304	46.1	50.4	49.6	25-55
4.75	2186	43.7	94.1	5.9	0-10

Note:

1. The Material is satisfied as per the requirement.

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Job No.: SCE/BBMP/LR/17/2022-2023

Date : 25.05.2022

TEST REPORT ON FINE AGGREGATES (SAND)
IS 1542-1992

Client : **Assistant Executive Engineer,** Yeshwanthpura Sub Division,BBMP, Bangalore.
Agency : **Sri. Lokesh R,** Contractor, Bangalore.
Name of Work : Compreshensive development of roads and drains in Muthyalanagara, LC-4A, Mohankumar nagara, Sundar nagara and surrounding areas in ward no-17 under PACKAGE-2019-20 RRN-DIV-(09), BBMP, Bangalore

Date of Testing : 25.05.2022
Material : Plastering Sand

Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 1542-1992
10	0	0	0	100	100
4.75	19	1.90	1.90	98.1	95-100
2.36	22	2.20	4.10	95.9	95-100
1.18	31	3.10	7.20	92.8	90-100
600 Micron	85	8.50	15.70	84.3	80-100
300 Micron	232	23.20	38.90	61.1	20-65
150 Micron	507	50.70	89.60	10.4	0-15

Note:
1. The Material is satisfied as per the requirement.

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Job No.: SCE/BBMP/LR/17/2022-2023

Date : 25.05.2022

TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

Client : **Assistant Executive Engineer,** Yeshwanthpura Sub Division,BBMP, Bangalore.
Agency : **Sri. Lokesh R,** Contractor, Bangalore.
Name of Work : Compreshensive development of roads and drains in Muthyalanagara, LC-4A, Mohankumar nagara, Sundar nagara and surrounding areas in ward no-17 under PACKAGE-2019-20 RRN-DIV-(09), BBMP, Bangalore

Date of Testing : 25.05.2022
Material : Masonry Sand

Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	21	2.10	2.10	97.9	90-100
1.18	23	2.30	4.40	95.6	70-100
600 Micron	76	7.60	12.00	88.0	40-100
300 Micron	225	22.50	34.50	65.5	5-70
150 Micron	516	51.60	86.10	13.9	0-15

Note:

1. The Material is satisfied as per the requirement.

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Job No.: SCE/BBMP/LR/17/2022-2023

Date:25.05.2022

TEST REPORT ON CPVC PIPE

Client	**: Assistant Executive Engineer,** Yeshwanthpura Sub Division,BBMP, Bangalore.
Agency	**: Sri. Lokesh R,** Contractor, Bangalore.
Name of Work	: Compreshensive development of roads and drains in Muthyalanagara, LC-4A, Mohankumar nagara, Sundar nagara and surrounding areas in ward no-17 under PACKAGE-2019-20 RRN-DIV-(09), BBMP, Bangalore
Sample Supplied by:	:AGENCY
BIS Code:	IS 13360(Part3/Sec 1):1995 IS 15778:2007
Sample Identification:	CPVC pipe 20mm dia
Date of Testing	25.05.2022

Sl.No	Test	Test Result	Requirements as per IS: 15778:2007
1	Nominal Outer Diameter (mm)	22.2	22.2 mm
2	Mean Outside Diameter (mm)	22.2	Min 22.1 mm Max 22.3 mm
3	Outside Diameter at Any Point (mm)	22.1mm	Min 22 mm Max 22.4 mm
4	Density	1595 Kg/m^3	1450 Kg/m^3 & 1650 Kg/m^3

Note:

1. The Material is satisfied as per the requirement.

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Job No.: SCE/BBMP/LR/17/2022-2023

25.05.2022

TEST REPORT ON CPVC PIPE

Client : **Assistant Executive Engineer,** Yeshwanthpura Sub Division,BBMP, Bangalore.

Agency : **Sri. Lokesh R,** Contractor, Bangalore.

Name of Work : Compreshensive development of roads and drains in Muthyalanagara, LC-4A, Mohankumar nagara, Sundar nagara and surrounding areas in ward no-17 under PACKAGE-2019-20 RRN-DIV-(09), BBMP, Bangalore

Sample Supplied by: :AGENCY

BIS Code: IS 13360(Part3/Sec 1):1995
IS 15778:2007

Sample Identification: CPVC pipe 50mm dia

Date of Testing 25.05.2022

Sl.No	Test	Test Result	Requirements as per IS: 15778:2007
1	Nominal Outer Diameter (mm)	54	54 mm
2	Mean Outside Diameter (mm)	54.1	Min 53.9 mm Max 54.1 mm
3	Outside Diameter at Any Point (mm)	54.2mm	Min 53.7 mm Max 54.3 mm
4	Density	1610 Kg/m^3	1450 Kg/m^3 & 1650 Kg/m^3

Note:

1. The Material is satisfied as per the requirement.

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